

PATENT ABSTRACTS OF JAPAN

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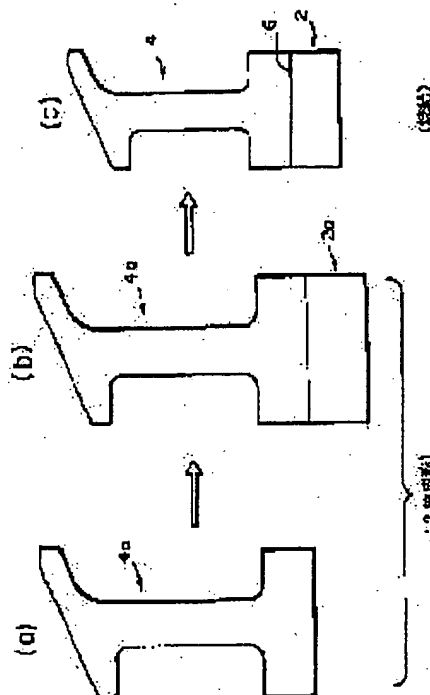
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(54) PRODUCTION OF METALLIC SINTERED PRODUCT HAVING TWO OR MORE PARTS COMPOSED OF DIFFERENT KINDS OF MATERIAL AND METALLIC SINTERED PRODUCT OBTAINED THEREBY

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a high hardness part without requiring quenching and to obtain a low hardness part in which, even in the case deformation is generated at the time of sintering, the modification thereof is easy, and, post-working by cutting or the like is also easy at the time of producing a product having two or more parts by a metal injection molding method.

SOLUTION: By using a primary molding material composing a primary part 2 and contg. metallic material powder and a binder contg. a thermoplastic resin and a secondary molding material composing a secondary part 4 and contg. secondary metallic material powder and a binder contg. a thermoplastic resin, respectively, a molding primary part 2a and a molding secondary part 4a are subjected to injection molding to obtain a green molding in accordance with a metallic sintered product. This green molding is subjected to heating treatment under the reduced pressure, the binder is removed from the green molding, and the primary metallic material powder and the secondary metallic material powder are sintered to form a primary part having 80 to 250 Hmv hardness and a secondary part having ≥ 600 Hmv hardness.



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